

GOMOS Daily Report 12-DEC-2003

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1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

| Item | Value |
|---------------------------|----------------------------------|
| Time of report generation | 13DEC2003 06:48:57 |
| Data source version | <Any version> |
| Start time of products | 12-DEC-2003 (12DEC2003 00:00:00) |
| Stop time of products | 13-DEC-2003 (13DEC2003 00:00:00) |
| Store outputs flag | 1 |
| Nb of level 1b prods | 49 |
| Nb of prods with errors | 1 |

2. Summary of products arrived in PCF

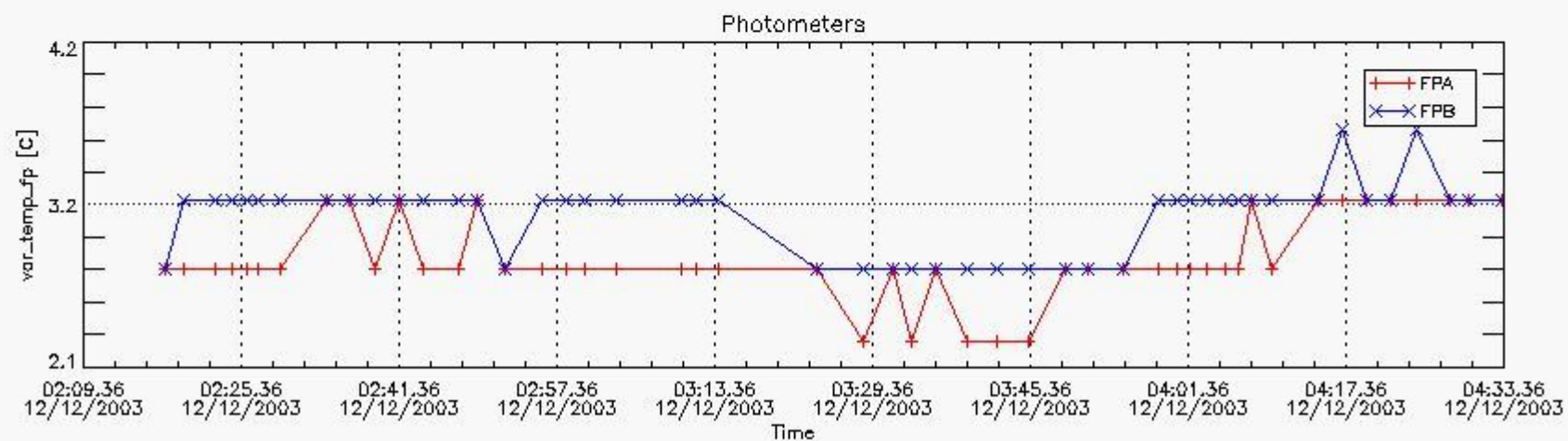
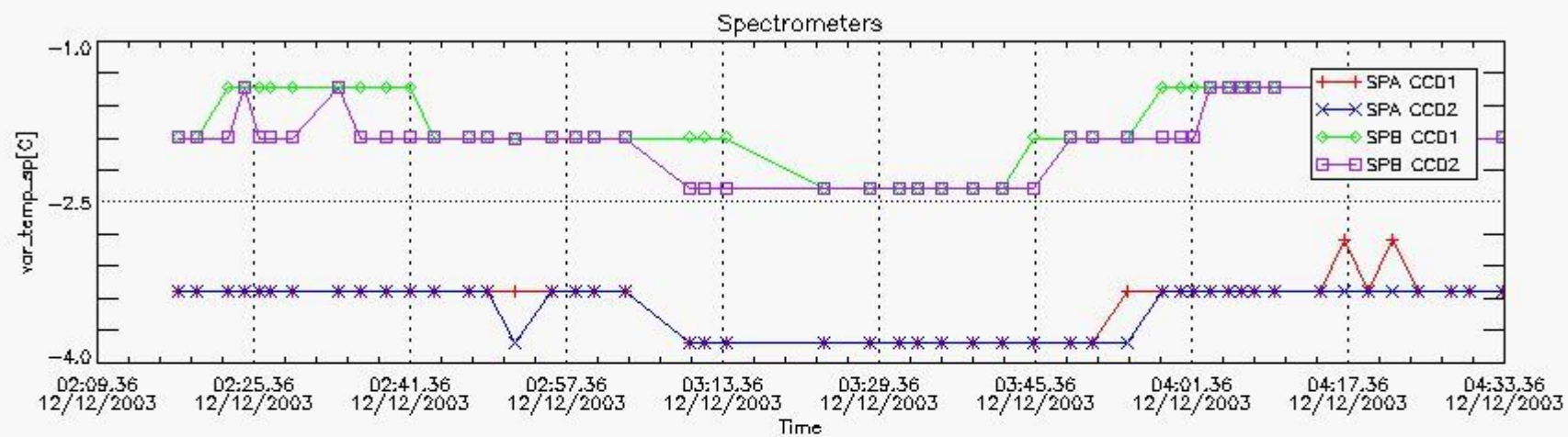
[2.1 Level 0 products arrived in PCF \(see template \[here\]\(#\)\)](#)

[2.2 Summary of processed GOM_TRA_1P products.](#)

| Filename | UTC Start time | Limb | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----------|----------------|------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
|----------|----------------|------|----------|---------|-----------|----------|-----------|---------|-------|-------------|

| | | | | | | | | | | |
|--|----------------------|--------|--------|-----|-----------|----------|--------|-----|------|-----|
| GOM_TRA_1PNPDE20031212_021752_000000472022_00246_09318_0020.N1 | 12-DEC-2003 02:17:52 | Dark | 47.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 94 | 9318 | No |
| GOM_TRA_1PNPDE20031212_021951_000000462022_00246_09318_0021.N1 | 12-DEC-2003 02:19:51 | Dark | 46.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 92 | 9318 | No |
| GOM_TRA_1PNPDE20031212_022253_000000392022_00246_09318_0022.N1 | 12-DEC-2003 02:22:53 | Dark | 39.000 | 95 | Zet Cen | 2.5450 | 26000. | 78 | 9318 | No |
| GOM_TRA_1PNPDE20031212_022444_000000402022_00246_09318_0023.N1 | 12-DEC-2003 02:24:44 | Dark | 39.500 | 77 | Eps Cen | 2.3030 | 28000. | 79 | 9318 | No |
| GOM_TRA_1PNPDE20031212_022605_000000442022_00246_09318_0024.N1 | 12-DEC-2003 02:26:05 | Dark | 43.500 | 10 | Bet Cen | 0.61000 | 28000. | 87 | 9318 | No |
| GOM_TRA_1PNPDE20031212_022721_000000422022_00247_09319_0025.N1 | 12-DEC-2003 02:27:21 | Dark | 41.500 | 20 | Bet Cru | 1.2530 | 30000. | 83 | 9319 | No |
| GOM_TRA_1PNPDE20031212_022930_000000372022_00247_09319_0026.N1 | 12-DEC-2003 02:29:30 | Dark | 37.000 | 112 | Alp Mus | 2.6880 | 26000. | 74 | 9319 | No |
| GOM_TRA_1PNPDE20031212_023410_000000412022_00247_09319_0027.N1 | 12-DEC-2003 02:34:10 | Dark | 41.000 | 29 | Bet Car | 1.6720 | 10200. | 82 | 9319 | No |
| GOM_TRA_1PNPDE20031212_023632_000000562022_00247_09319_0028.N1 | 12-DEC-2003 02:36:32 | Dark | 55.500 | 41 | Eps Car | 1.8600 | 4100.0 | 111 | 9319 | No |
| GOM_TRA_1PNPDE20031212_023907_000000562022_00247_09319_0029.N1 | 12-DEC-2003 02:39:07 | Dark | 56.000 | 34 | Gam2Vel | 1.7930 | 23000. | 112 | 9319 | No |
| GOM_TRA_1PNPDE20031212_024135_000000502022_00247_09319_0030.N1 | 12-DEC-2003 02:41:35 | Dark | 50.000 | 2 | Alp Car | -0.73600 | 7000.0 | 100 | 9319 | No |
| GOM_TRA_1PNPDE20031212_024407_000000582022_00247_09319_0031.N1 | 12-DEC-2003 02:44:07 | Dark | 58.000 | 117 | Pi Pup | 2.7060 | 3800.0 | 116 | 9319 | No |
| GOM_TRA_1PNPDE20031212_024731_000000612022_00247_09319_0032.N1 | 12-DEC-2003 02:47:31 | Dark | 61.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 122 | 9319 | No |
| GOM_TRA_1PNPDE20031212_024925_000000632022_00247_09319_0033.N1 | 12-DEC-2003 02:49:25 | Dark | 62.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 125 | 9319 | No |
| GOM_TRA_1PNPDE20031212_025224_000000602022_00247_09319_0000.N1 | 12-DEC-2003 02:52:24 | Dark | 60.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 120 | 9319 | Yes |
| GOM_TRA_1PNPDE20031212_025604_000000552022_00247_09319_0001.N1 | 12-DEC-2003 02:56:04 | Dark | 55.000 | 7 | 19Bet Ori | 0.10000 | 14000. | 110 | 9319 | No |
| GOM_TRA_1PNPDE20031212_025829_000000512022_00247_09319_0002.N1 | 12-DEC-2003 02:58:29 | Dark | 50.500 | 30 | 46Eps Ori | 1.6940 | 30000. | 101 | 9319 | No |
| GOM_TRA_1PNPDE20031212_030021_000000452022_00247_09319_0003.N1 | 12-DEC-2003 03:00:21 | Dark | 45.000 | 94 | 92Alp Cet | 2.5260 | 3100.0 | 90 | 9319 | No |
| GOM_TRA_1PNPDE20031212_030333_000000552022_00247_09319_0004.N1 | 12-DEC-2003 03:03:33 | Dark | 54.500 | 13 | 87Alp Tau | 0.86700 | 3800.0 | 109 | 9319 | No |
| GOM_TRA_1PNPDE20031212_031007_000000372022_00247_09319_0005.N1 | 12-DEC-2003 03:10:07 | Bright | 37.000 | 149 | 45Eps Per | 2.8880 | 30000. | 74 | 9319 | No |
| GOM_TRA_1PNPDE20031212_031139_000000402022_00247_09319_0006.N1 | 12-DEC-2003 03:11:39 | Bright | 40.000 | 73 | 57Gam1And | 2.2600 | 13100. | 80 | 9319 | No |
| GOM_TRA_1PNPDE20031212_031355_000000382022_00247_09319_0007.N1 | 12-DEC-2003 03:13:55 | Bright | 38.000 | 160 | 23Gam Per | 2.9300 | 4700.0 | 76 | 9319 | No |
| GOM_TRA_1PNPDE20031212_032358_000000352022_00247_09319_0008.N1 | 12-DEC-2003 03:23:58 | Bright | 34.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 69 | 9319 | No |
| GOM_TRA_1PNPDE20031212_032841_000000402022_00247_09319_0009.N1 | 12-DEC-2003 03:28:41 | Bright | 39.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 79 | 9319 | No |
| GOM_TRA_1PNPDE20031212_033145_000000372022_00247_09319_0010.N1 | 12-DEC-2003 03:31:45 | Bright | 37.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 74 | 9319 | No |
| GOM_TRA_1PNPDE20031212_033331_000000432022_00247_09319_0011.N1 | 12-DEC-2003 03:33:31 | Bright | 43.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 86 | 9319 | No |
| GOM_TRA_1PNPDE20031212_033555_000000392022_00247_09319_0012.N1 | 12-DEC-2003 03:35:55 | Bright | 38.500 | 39 | 85Eta UMa | 1.8540 | 24000. | 77 | 9319 | No |
| GOM_TRA_1PNPDE20031212_033908_000000372022_00247_09319_0013.N1 | 12-DEC-2003 03:39:08 | Bright | 36.500 | 180 | 27Gam Boo | 3.0400 | 8000.0 | 73 | 9319 | No |
| GOM_TRA_1PNPDE20031212_034216_000000372022_00247_09319_0014.N1 | 12-DEC-2003 03:42:16 | Bright | 36.500 | 83 | | 2.3780 | 11000. | 73 | 9319 | No |
| GOM_TRA_1PNPDE20031212_034527_000000442022_00247_09319_0015.N1 | 12-DEC-2003 03:45:27 | Bright | 44.000 | 111 | 8Eta Boo | 2.6800 | 6000.0 | 88 | 9319 | No |
| GOM_TRA_1PNPDE20031212_034906_000000492022_00247_09319_0016.N1 | 12-DEC-2003 03:49:06 | Bright | 48.500 | 138 | 47Eps Vir | 2.8280 | 4700.0 | 97 | 9319 | No |
| GOM_TRA_1PNPDE20031212_035124_000000892022_00247_09319_0017.N1 | 12-DEC-2003 03:51:24 | Dark | 89.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 178 | 9319 | No |
| GOM_TRA_1PNPDE20031212_035501_000000522022_00247_09319_0018.N1 | 12-DEC-2003 03:55:01 | Dark | 52.000 | 15 | 67Alp Vir | 0.97600 | 28000. | 104 | 9319 | No |
| GOM_TRA_1PNPDE20031212_035830_000000462022_00247_09319_0019.N1 | 12-DEC-2003 03:58:30 | Dark | 45.500 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 91 | 9319 | No |
| GOM_TRA_1PNPDE20031212_040028_000000462022_00247_09319_0020.N1 | 12-DEC-2003 04:00:28 | Dark | 46.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 92 | 9319 | No |
| GOM_TRA_1PNPDE20031212_040149_000000442022_00247_09319_0021.N1 | 12-DEC-2003 04:01:49 | Dark | 43.500 | 123 | lot Cen | 2.7500 | 10200. | 87 | 9319 | No |
| GOM_TRA_1PNPDE20031212_040330_000000422022_00247_09319_0022.N1 | 12-DEC-2003 04:03:30 | Dark | 41.500 | 95 | Zet Cen | 2.5450 | 26000. | 83 | 9319 | No |
| GOM_TRA_1PNPDE20031212_040522_000000382022_00247_09319_0023.N1 | 12-DEC-2003 04:05:22 | Dark | 38.000 | 77 | Eps Cen | 2.3030 | 28000. | 76 | 9319 | No |
| GOM_TRA_1PNPDE20031212_040642_000000412022_00247_09319_0024.N1 | 12-DEC-2003 04:06:42 | Dark | 40.500 | 10 | Bet Cen | 0.61000 | 28000. | 81 | 9319 | No |
| GOM_TRA_1PNPDE20031212_040758_000000462022_00248_09320_0025.N1 | 12-DEC-2003 04:07:58 | Dark | 45.500 | 20 | Bet Cru | 1.2530 | 30000. | 91 | 9320 | No |
| GOM_TRA_1PNPDE20031212_041006_000000382022_00248_09320_0026.N1 | 12-DEC-2003 04:10:06 | Dark | 37.500 | 112 | Alp Mus | 2.6880 | 26000. | 75 | 9320 | No |
| GOM_TRA_1PNPDE20031212_041447_000000392022_00248_09320_0027.N1 | 12-DEC-2003 04:14:47 | Dark | 39.000 | 29 | Bet Car | 1.6720 | 10200. | 78 | 9320 | No |
| GOM_TRA_1PNPDE20031212_041718_000000592022_00248_09320_0028.N1 | 12-DEC-2003 04:17:18 | Dark | 58.500 | 65 | Lam Vel | 2.2040 | 4400.0 | 117 | 9320 | No |
| GOM_TRA_1PNPDE20031212_041944_000000482022_00248_09320_0029.N1 | 12-DEC-2003 04:19:44 | Dark | 48.000 | 34 | Gam2Vel | 1.7930 | 23000. | 96 | 9320 | No |
| GOM_TRA_1PNPDE20031212_042212_000000512022_00248_09320_0030.N1 | 12-DEC-2003 04:22:12 | Dark | 50.500 | 2 | Alp Car | -0.73600 | 7000.0 | 101 | 9320 | No |
| GOM_TRA_1PNPDE20031212_042443_000000602022_00248_09320_0031.N1 | 12-DEC-2003 04:24:43 | Dark | 60.000 | 117 | Pi Pup | 2.7060 | 3800.0 | 120 | 9320 | No |
| GOM_TRA_1PNPDE20031212_042807_000000632022_00248_09320_0032.N1 | 12-DEC-2003 04:28:07 | Dark | 63.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 126 | 9320 | No |
| GOM_TRA_1PNPDE20031212_043001_000000612022_00248_09320_0033.N1 | 12-DEC-2003 04:30:01 | Dark | 60.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 121 | 9320 | No |
| GOM_TRA_1PNPDE20031212_043320_000000692022_00248_09320_0034.N1 | 12-DEC-2003 04:33:20 | Dark | 68.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 137 | 9320 | No |

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



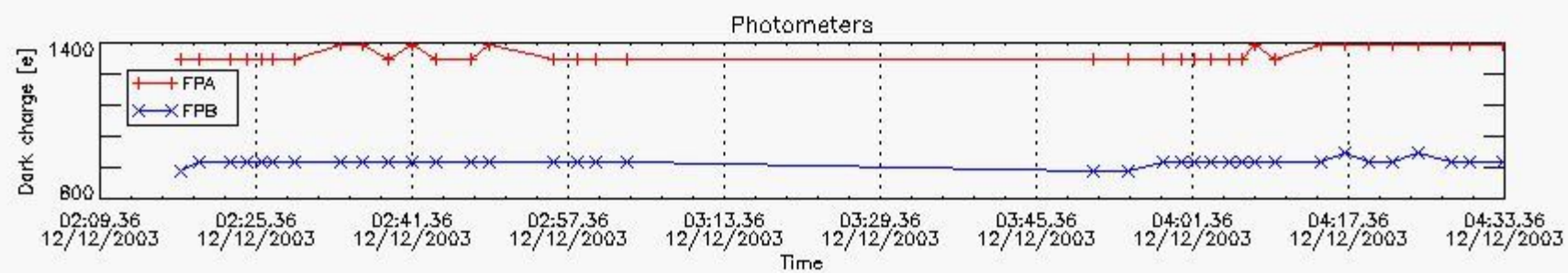
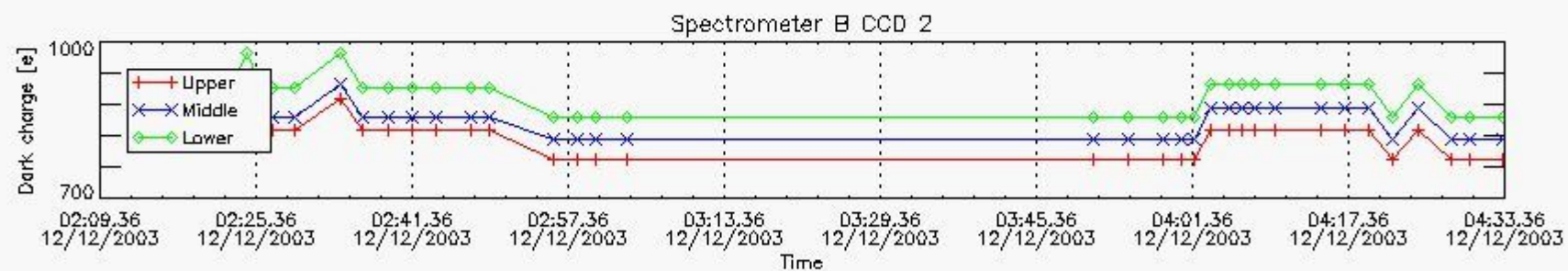
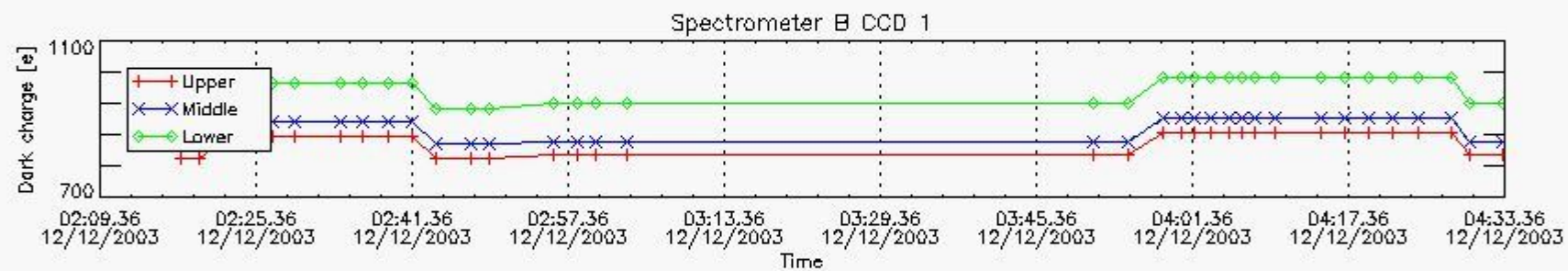
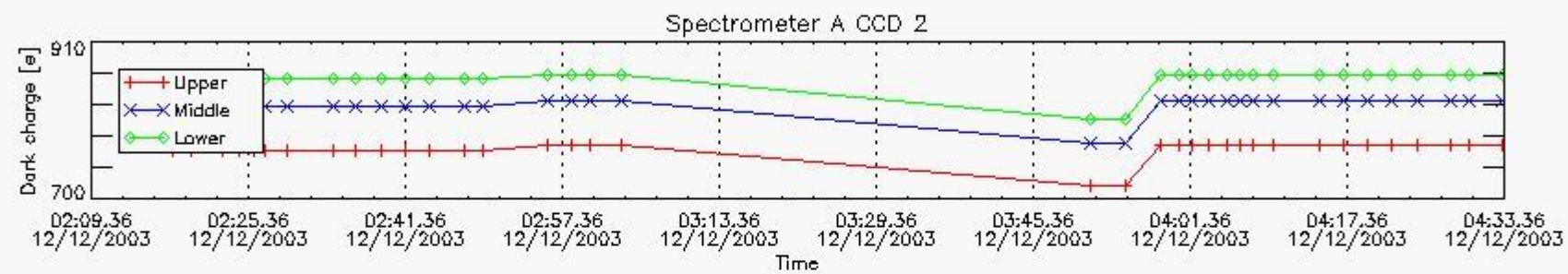
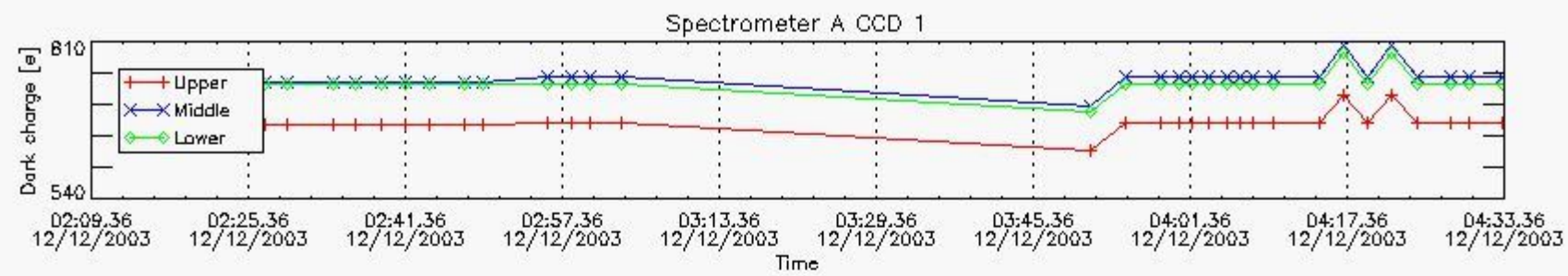
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

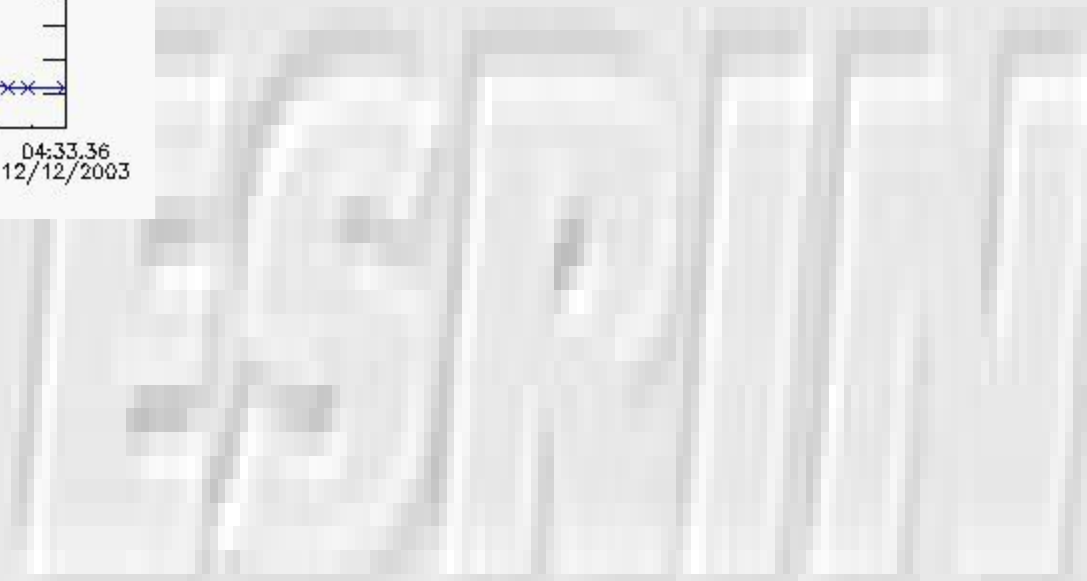
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



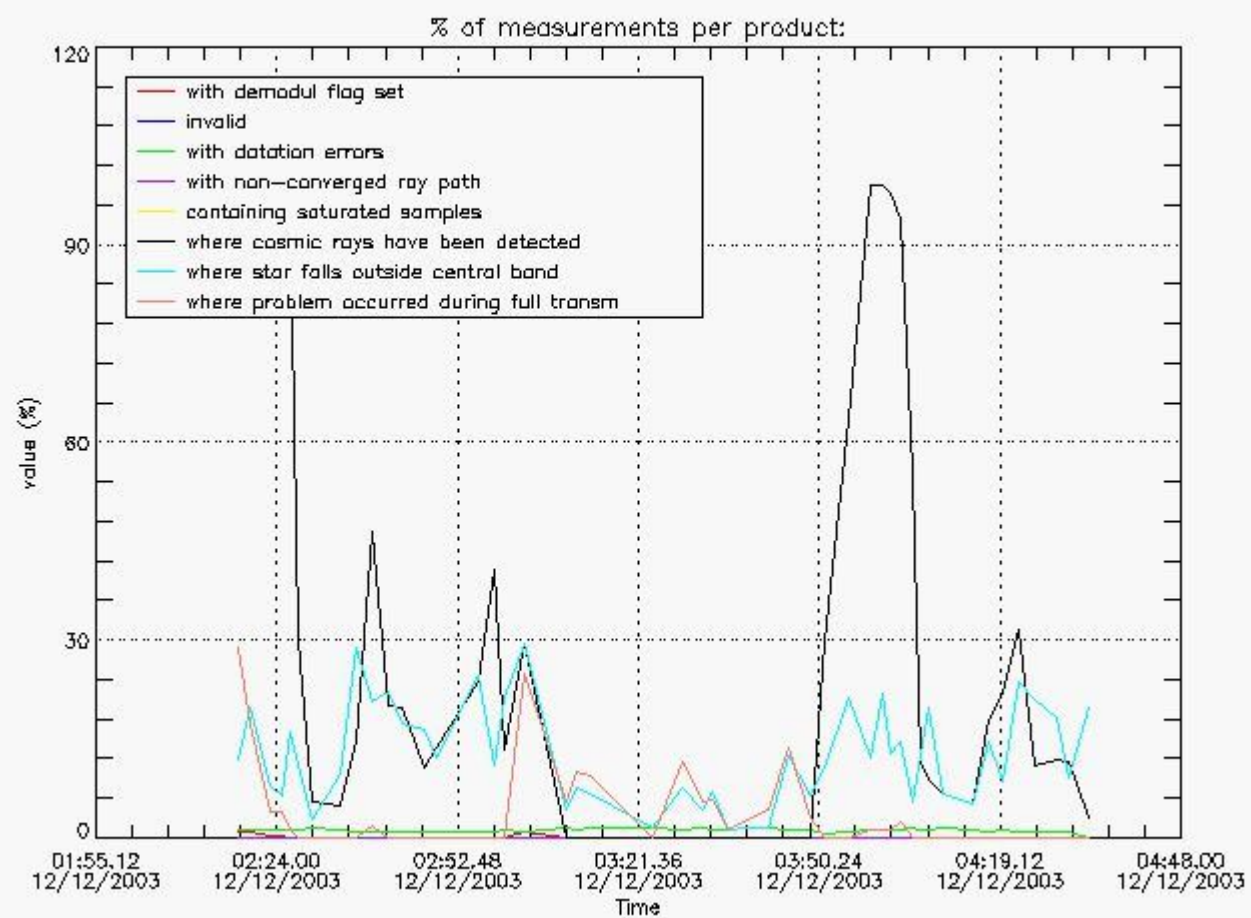
5. Demodulation flag and quality information monitoring

5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 27.0833 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |



5.2 Plot quality information per product



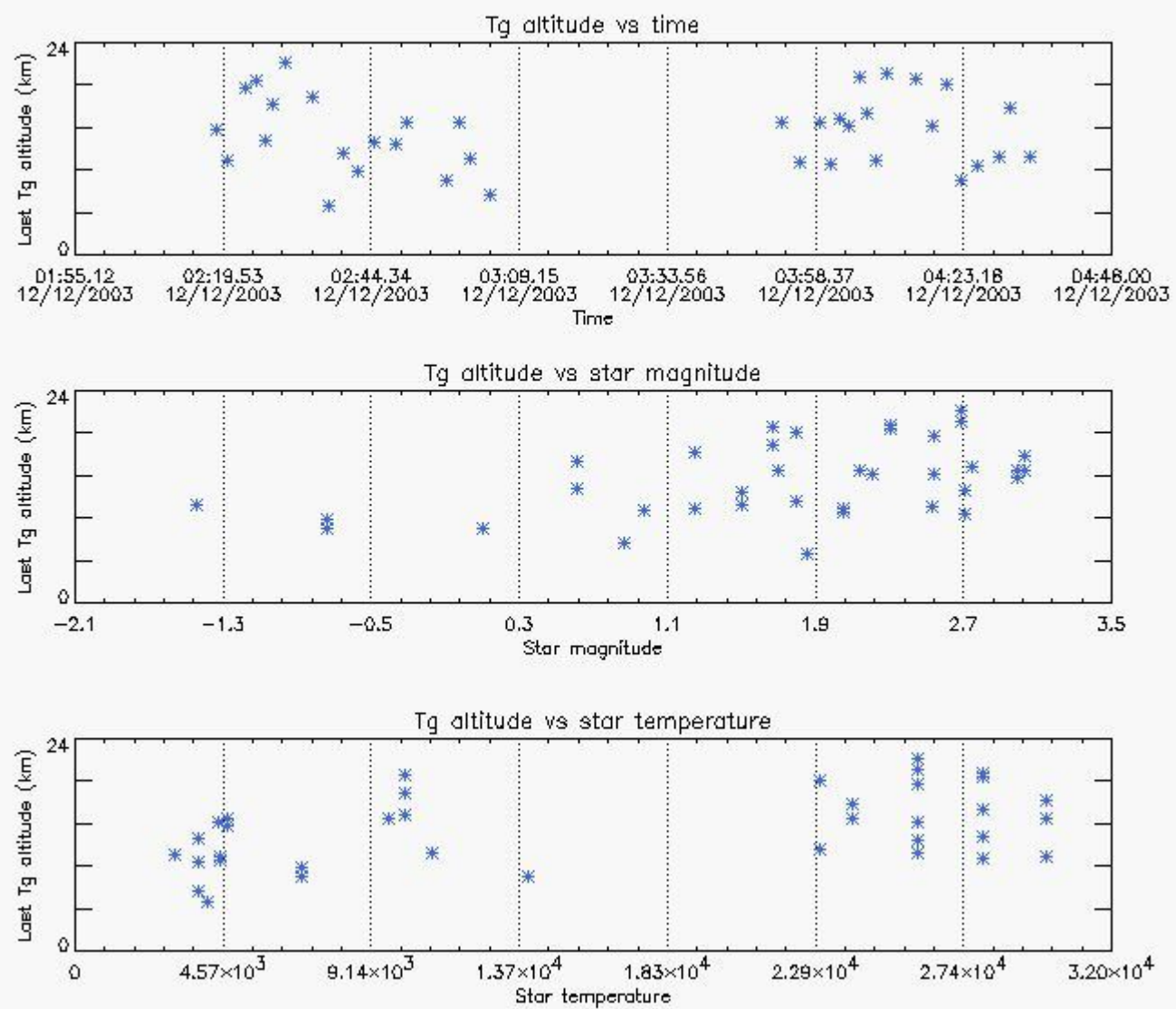
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT |
|-----------------|--------|--------|
| Mean: | 13.875 | 21.370 |
| St. deviation: | 4.1845 | 3.3284 |
| Maximum: | 21.824 | 27.764 |
| Minimum: | 5.5329 | 15.954 |
| Number of data: | 36.000 | 12.000 |

6.2 Plot for DARK limb products

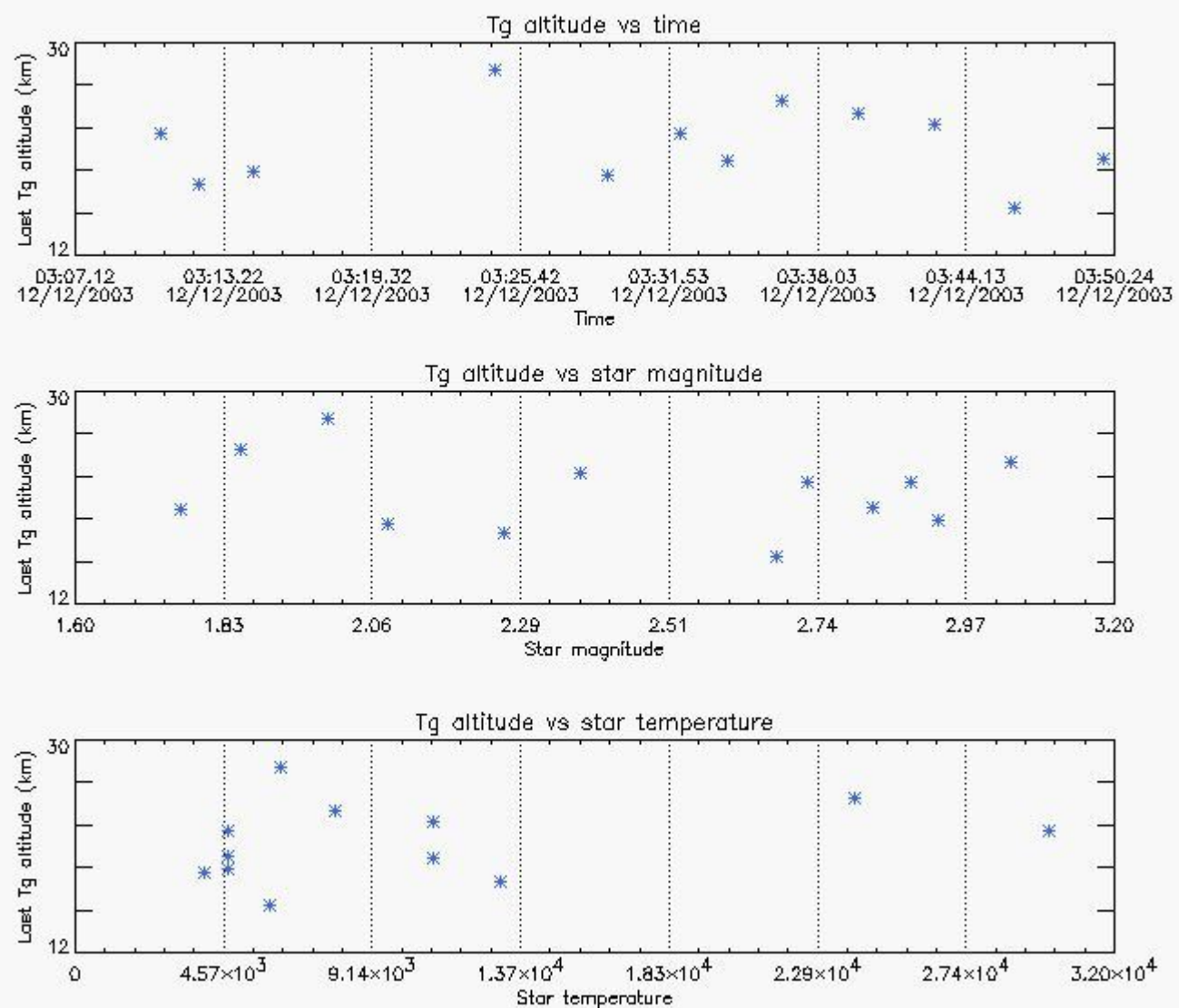
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



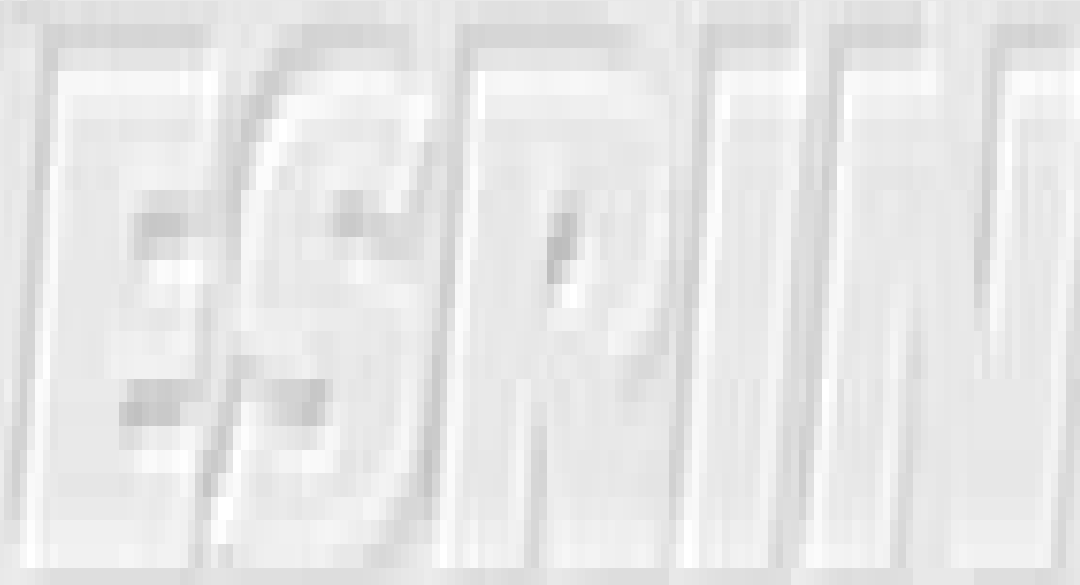
Tangent altitude at which the star is lost



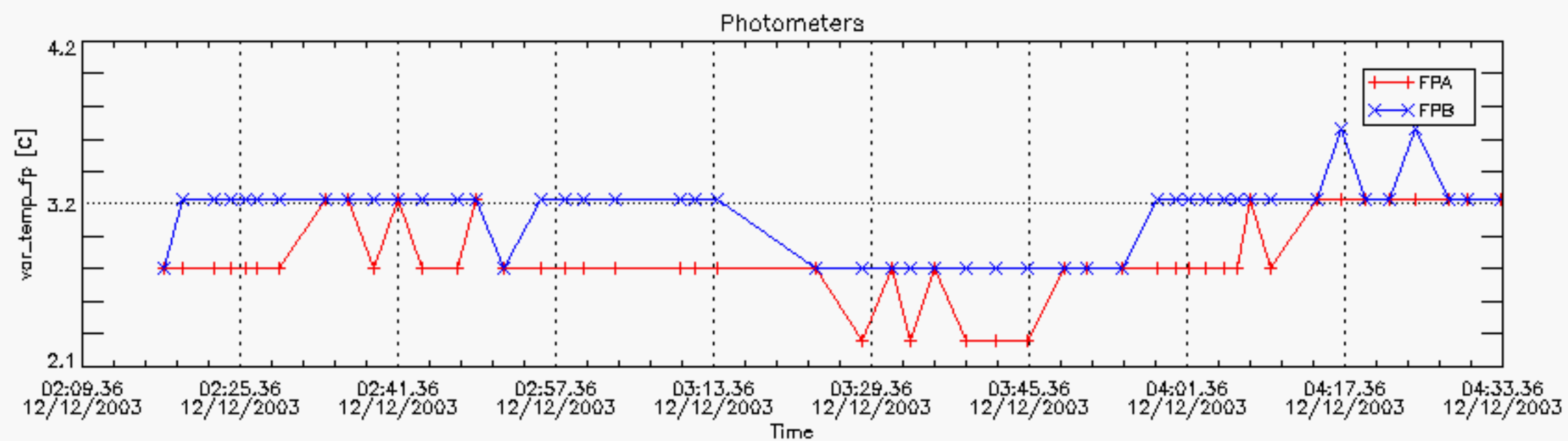
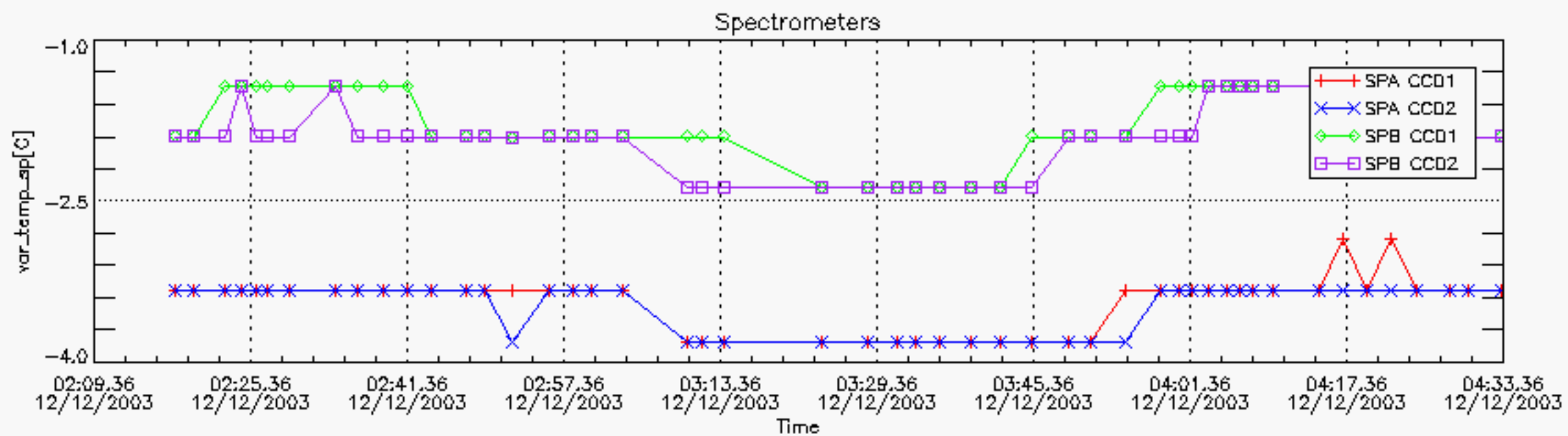
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

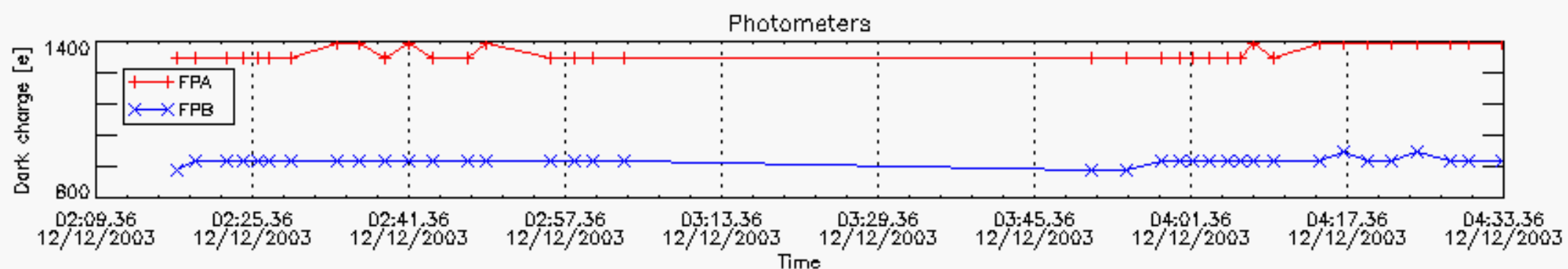
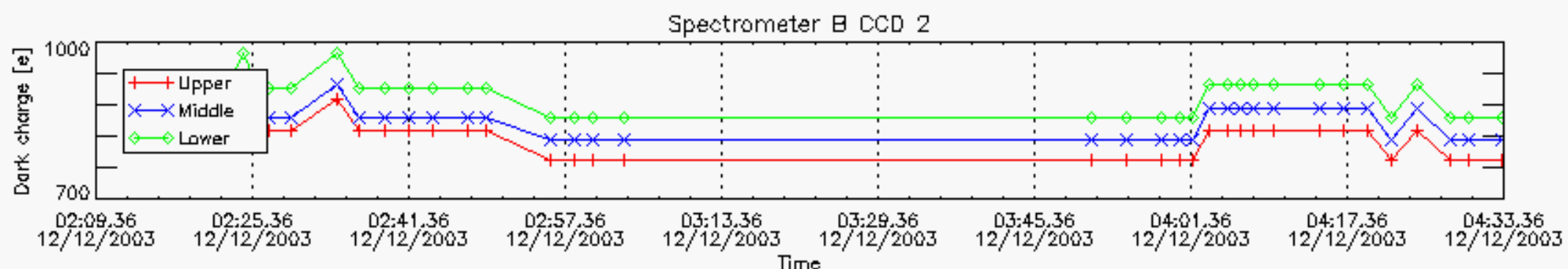
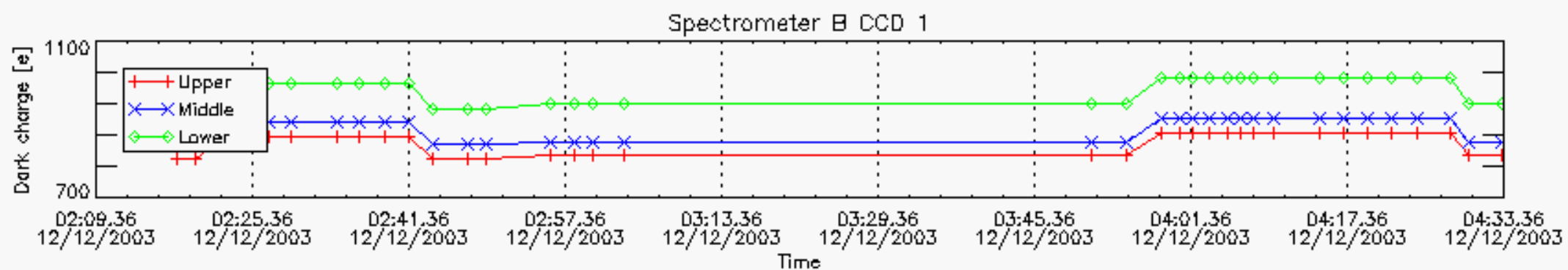
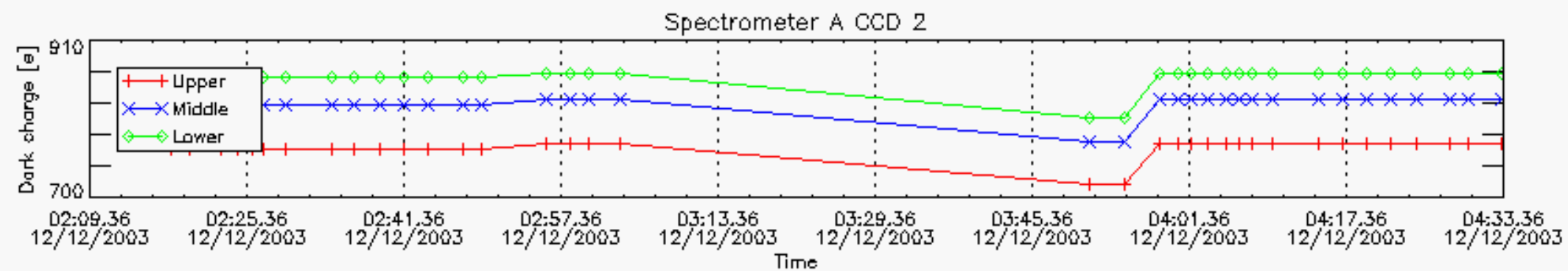
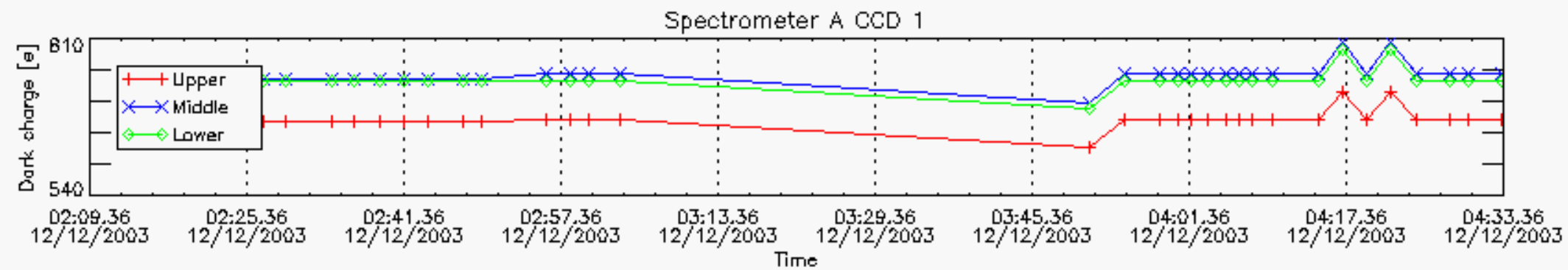
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|-----------------|------------|------------|------------|------------|
| Mean: | 1461.6 | 1447.3 | 1460.7 | 1447.7 |
| St. deviation: | 5.1711 | 6.5651 | 7.4318 | 8.8039 |
| Maximum: | 1704.0 | 1537.0 | 1511.0 | 1504.0 |
| Minimum: | 1459.0 | 1433.0 | 1444.0 | 1428.0 |
| Number of data: | 43050. | 43050. | 12600. | 12600. |

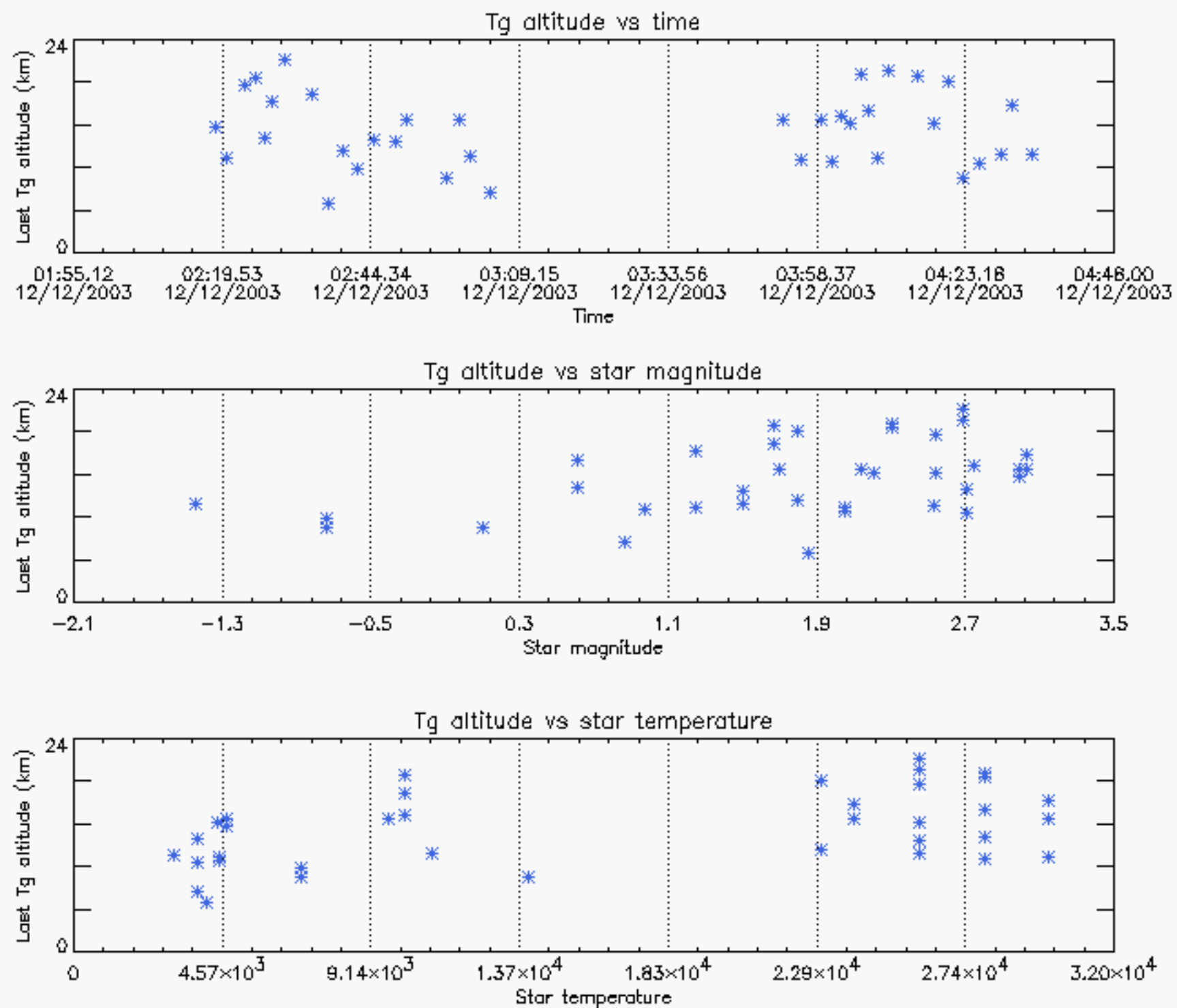




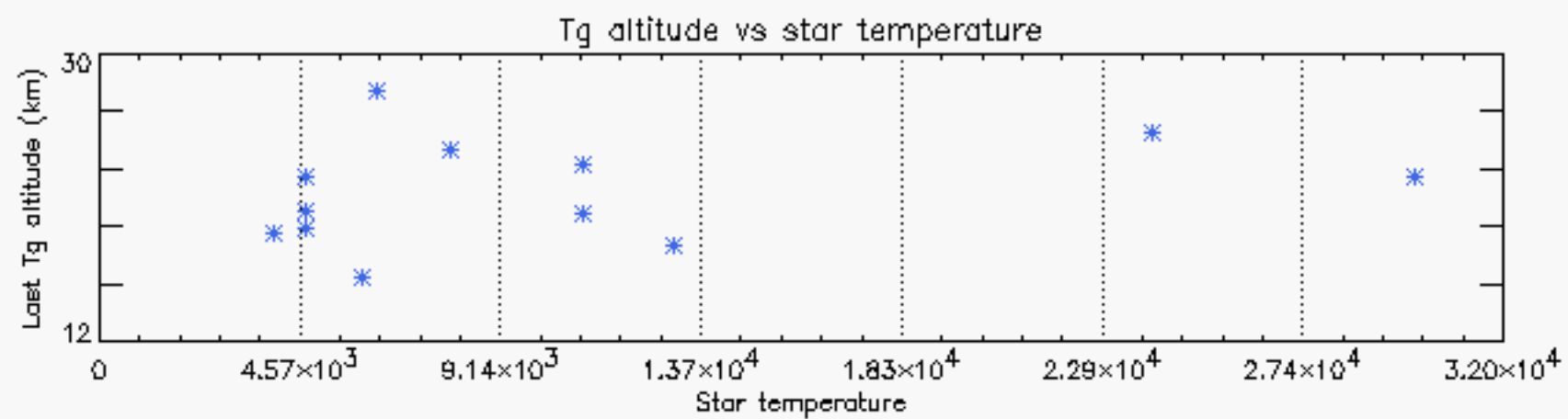
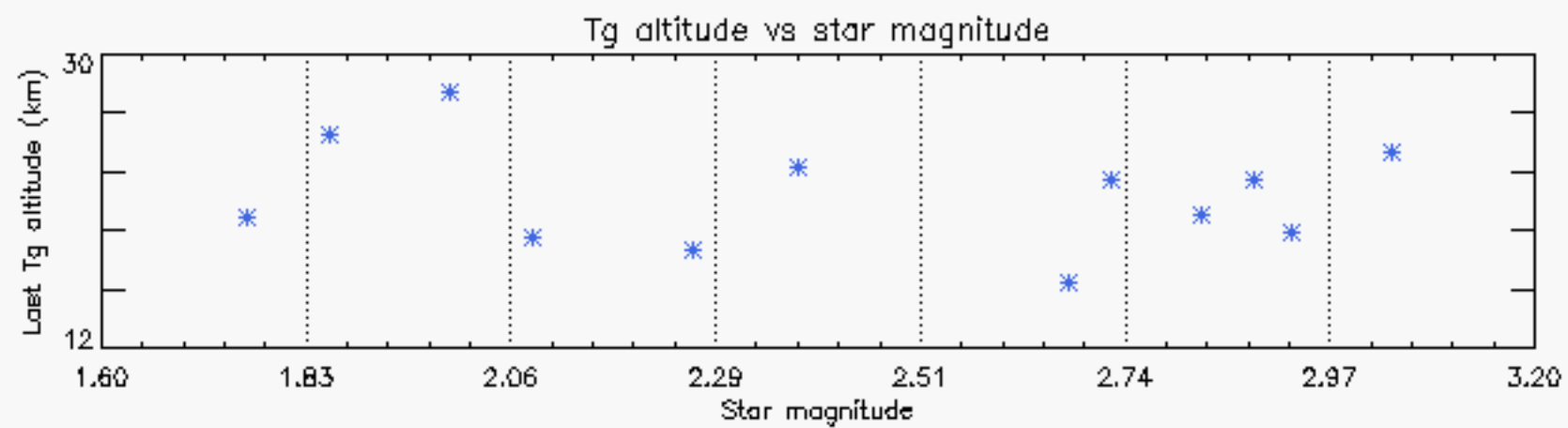
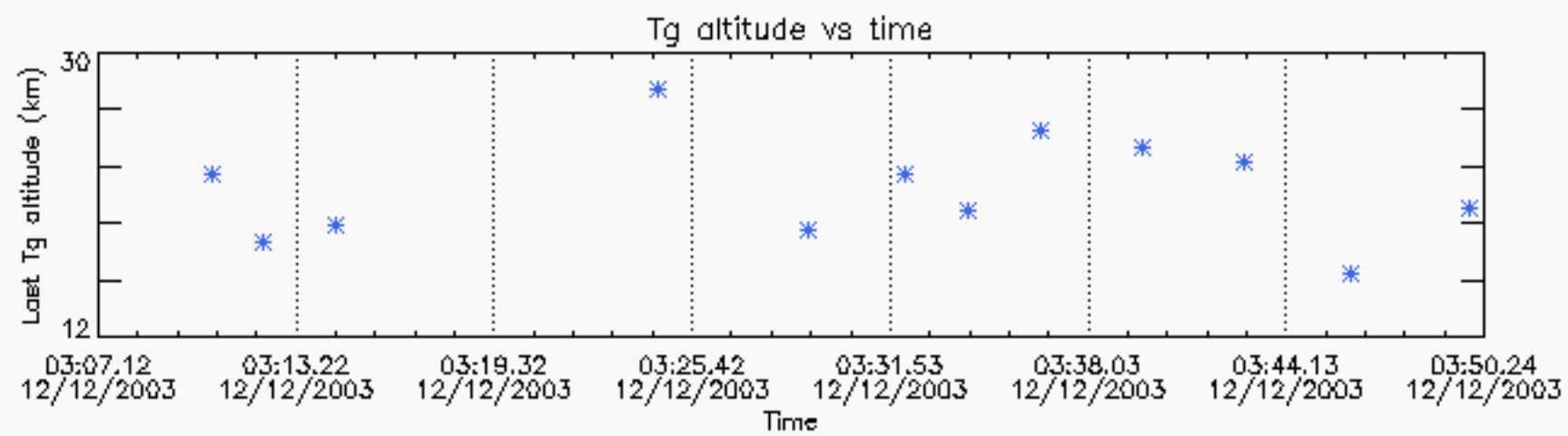




Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/data4_2/GOMOS/level0/GOM_NL_0PNPDK20031201_052111_000061942022_00091_09163_0248.N1

1;-4379.2; 01-DEC-2003 05:21:11; Dark ; 45.0; 165; 34Gam Eri ; 2.95; 3200;occ; 90; 0; 9163
 2;-4285.0; 01-DEC-2003 05:22:45; Dark ; 62.5; 7; 19Bet Ori ; 0.10; 14000;occ; 125; 0; 9163
 3;-4102.1; 01-DEC-2003 05:25:48; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0; 9163
 4;-3938.0; 01-DEC-2003 05:28:32; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0; 9163
 5;-3804.3; 01-DEC-2003 05:30:46; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0; 9163
 6;-3708.7; 01-DEC-2003 05:32:21; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0; 9163
 7;-3567.0; 01-DEC-2003 05:34:43; Bright; 41.5; 150; 44Zet Per ; 2.89; 28000;occ; 83; 0; 9163
 8;-3433.2; 01-DEC-2003 05:36:57; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0; 9163
 9;-3299.9; 01-DEC-2003 05:39:10; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0; 9163
 10;-3219.4; 01-DEC-2003 05:40:31; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0; 9163
 11;-3080.2; 01-DEC-2003 05:42:50; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0; 9163
 12;-2616.4; 01-DEC-2003 05:50:34; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0; 9163
 13;-2335.8; 01-DEC-2003 05:55:14; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0; 9163
 14;-2215.0; 01-DEC-2003 05:57:15; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0; 9163
 15;-2118.3; 01-DEC-2003 05:58:52; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0; 9163
 16;-2022.8; 01-DEC-2003 06:00:27; Bright; 56.0; 32; 77Eps UMa ; 1.76; 11000;occ; 112; 0; 9163
 17;-1898.7; 01-DEC-2003 06:02:31; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0; 9163
 18;-1724.9; 01-DEC-2003 06:05:25; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0; 9163
 19;-1544.0; 01-DEC-2003 06:08:26; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0; 9163
 20;-1392.6; 01-DEC-2003 06:10:57; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0; 9163
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 34; 1144.7; 01-DEC-2003 08:33:51; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0; 9165
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